

# THE EAST TENNESSEE UNION FLAG.

Agricultural.

The Tomato, and its Culture.

By J. Payne Liles, Tuck Falls, New Jersey.

[P. O. Box 3242, New York.]

This delicately acid, cooling healthful, and now almost indispensable fruit, whose hygienic qualities have been tested by the human system (that most perfect of laboratories,) is, by careful culture, being brought to perfection; and instead of coarse, unwholesome, spoggy, seedy, ill-flavored fruits, the desirable qualities of freshness, productiveness, size, solidity, fewness of seeds, evenness of form, richness of flavor, and beauty of color may be secured.

How to Start the Plants.—For family use we get early fruit, sow seed from the earliest ripened fruit. [In a little box containing 3 or 4 inches of rich soil] in the neighborhood of New York, any time from the beginning of March till the opening of Spring, and for a late crop sow seed when the Spring opens, in the open ground; plant from the latter will fruit till frost comes, and longer if protected. Place the little box near a window where the sun can shine on it, in a warm room of even temperature. Water (with tepid water) once a day. Let the plants have light and sunshine, and all the fresh air they can stand. Ill-grown plants, crowded to suffocation, such as are seen in most dealers' hot-beds, have little value.

Transplanting.—When the rough leaves come, transplant into pots, or a box, and do so three or four times till open ground culture. Water freely each time before transplanting, so that a ball of earth may be removed with each plant.

Open ground culture.—Do not plant in the open ground, unless the plants are protected, till all danger of frost is over. They will flourish in a rather light than heavy, and rich, but not over-rich soil. Hoe early and often. Let no weeds grow. Keep the soil friable.

Parching.—The advantages of pruning have been questioned, but my tomatoes grow best when well pruned—Cut out all suckers and non-bearing branches, let in light, air, and sunshine. Most of the fruit grows on the lower part of the vines, and there will be no loss by shortening them; for nutrition will then flow to fruit instead of making fibre.

Supporting the Vines.—Keeping the Vine Clean.—Training.—It is sometimes thought well, in garden culture, to support the vines by brush or other refuse material, or by training, which may be done by setting poles 12 feet apart, the tops five feet out of the ground. Attach wires to them horizontally. Thus the fruit may be exposed to the free action of sun and air.

Varieties.—After having tried the popular varieties, I grow only LESTER'S PERFECTED TOBACCO; and as much mixed and spurious seed has been sold under name, thus misrepresenting the fruit, and the gentleman who introduced it, Mr. Lester grew and gave me a few plants from genuine seed so that this valuable fruit should not be lost or misrepresented. Most of the seed saved has been at twenty-five cents a small package, and as I have not enough to make a business of it—through farming for profit as well as pleasure—it is hoped I will not be considered as giving undue importance to the variety spoken of.

## Agricultural Experience.

1. All soils are benefited by being underdrained, but the benefit is most apparent and lasting in those of a clayey nature, or having a subsoil retentive of moisture.

2. After drainage, subsoiling and good cultivation are necessary to insure good crops on heavy soils.

3. Lime is the best manure to apply to strong clay soils. It renders them more pervious to light and heat, and also corrects their acidity, by combining with some of the chemical salts in the soil, making plant food of poison.

4. Summer fallowing is the most efficient and profitable means of preparing strong soils for wheat, and of beginning a rotation, after grass has been grown for a length of time.

5. Green crops plowed under when in the most succulent state are powerful auxiliaries in rendering a light soil fertile, but if this is done too often successively the soil becomes overcharged with exudaceous matter.

6. Leached ashes applied in large quantities to sandy soils, or those containing too much vegetable humus, will greatly ameliorate their condition and render them more compact.

7. There is no soil so poor or sterile but some mode may be found of ameliorating and enriching it.

8. Blowing sands may be gradually made productive by spreading six inches thick of straw over them, to remain till rotted. Then seed thickly with clover on the surface without plowing, and when the clover has taken hold and becomes established, pasture sheep upon the land for two or three years preparatory to manuring and cultivating it.

9. Two successive grain crops on the same land leaves it pretty foul.

10. Summer fallowing ameliorates a soil, and if properly done gets rid of most of the weeds and noxious plants infesting it.—*Florida Farmer.*

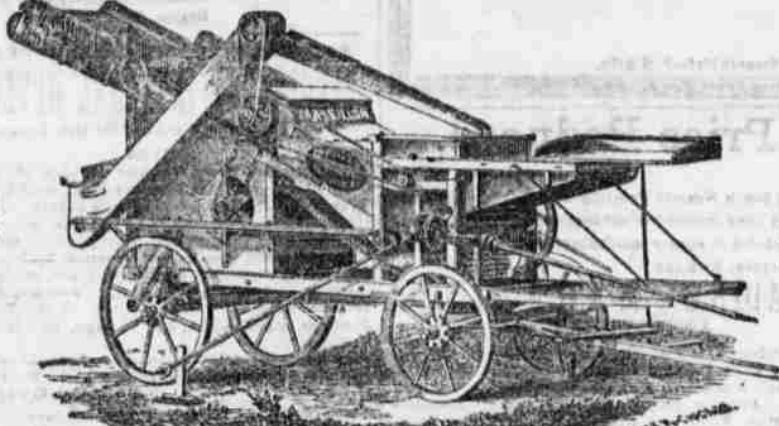
**GEORGE S. RUBLE,**  
CHATTANOOGA, TENNESSEE,  
GENERAL AGENT.

FOR THE SALE OF

**RUSSELL & CO.'S**

**COMPOUNDED THRESHING MACHINES,**

REAPERS AND FLOWERS.  
AND



Also, Dealers in all kinds of IMPLEMENTS of the latest invention, needed by the intelligent and worthy farmer.

**EZ. S. MATHES, Agent.**  
JONESBOROUGH, TENNESSEE.

(OUR TRADE MARK.)  
**"EVERY BODY TAKES IT."**

**BRADY'S FAMILY BITTERS,**  
THE BEST TONIC IN THE WORLD.

Awarded the Highest Premium at the State Fairs of Louisiana, Kentucky, Indiana, Missouri, Alabama, &c., 1808, and Louisiana State Fair 1809. Recommended by the best Physicians in the Country for the cure of

Dyspepsia, Indigestion, Weaknesses, Consumption and Cholera Morbus, Gravel, Cuttings & Tonics for Liver and Kidneys.

IT HAS NO EQUAL, and is a powerful Bitter. It is an Preventive against Galls and Fevers.



Brady's Liniment for man and Beast.

Sold by all Druggists, Grocers and Dealers generally.

[60 July 20th]



## MISCELLANEOUS.



## DOTY'S WASHING MACHINE!

LATELY MUCH IMPROVED—AND THE NEW

## UNIVERSAL CLOTHES WRINGER,

Improved with ROWELL'S PATENT DOUBLE CO-WHEELS, and the PATENT STOP, are now unquestionably superior to any apparatus for washing clothes ever invented, and will save their cost twice a year, by saving labor and clothes.

Southern people who have used them testify as follows:

They save three-fourths of the labor and cost, and they have both health and contentment. Every young lady has to wash clothes, and every married woman keeps them in her house.—*New Orleans Picayune.*

An excellent Washing Machine.—We have tried the Doty Wringer and are very satisfied. A good hand will wash a large number of pieces in a few hours.—*Mobile (Ala.) Evening Democrat.*

This Machine is no humbug, but necessary in every home.—*Mobile (Ala.) Evening Democrat.*

We would not part with it for anything, and be compelled to do without it.—*Montgomery (Ala.) Advertiser.*

We have seen, and from observation, it works amazingly. In one year it will pay for itself.—*Mobile (Ala.) Advertiser.*

We have one of Doty's Clothes Washers, and our house is kept clean and neat. They are great economizers of time and labor.—*Mobile (Ala.) Advertiser.*

For anyone to try competing with washing clothes is to expose himself to an unavoidable mortification.—*Mobile (Ala.) Evening Democrat.*

No one, after trying, testing their capacities, will be willing to do without it.—*Montgomery (Ala.) Advertiser.*

We have one of these excellent Machines in use, and we willingly concur in all that is claimed for the Doty Wringer.—*Montgomery (Ala.) Advertiser.*

A child can easily learn to wash clothes just as well as a grown person. Every good hand should soon care for his family.—*Montgomery (Ala.) Advertiser.*

For anyone to compete with a Doty, we are assured that it is the greatest and surest contrivance in this line, labor and money we have got introduced into it.—*Montgomery (Ala.) Advertiser.*

I have had a Doty Wringer in my house for some time. It gives entire satisfaction, and I take pleasure in commanding the best of every household.—*Mobile (Ala.) Evening Democrat.*

I have had a Doty's Clothes Washer in use for a year, and am perfectly satisfied with it. My family have tried it thoroughly, and have never given it to fail or disappoint us. It did it promptly.—*Mobile (Ala.) Evening Democrat.*

Sold by dealers in all principal cities, to whom address direct.

PRICES—A Fair Offer.

If the Machines in your place will not furnish, or send for the Machines, send us the retail price, WASHER, \$15.; EXTR. WRINGER, \$10.; and mount forward either or both Machines, free of freight, plus a charge for packing and mailing, and add to that one-half of the cost of the machine, to cover the money if any will be used to return the machines free of freight, after a month's trial and according to directions.

A hand washes a dozen pieces, and a good wringer does the washing with the hands, fifty days a year, when it can be done better, more expeditiously, with less labor, and so injury to the garments, by hand washing, is avoided.

Send for Tickets via Louisville.

Freight transported in quick time and at low rates.

Through Tickets and Baggage Checks to all principal cities.

For Agents.—We will give you a copy of our catalogues.

W. H. KING, Genl. Sales Agt., 32 Cornhill Street, New York.

ALBERT FINE, Genl. Sales Agt., 100 Broadway, New York.

W. H. KING, Genl. Sales Agt., 32 Cornhill Street, New York.

W. H. KING, Genl. Sales Agt., 32 Cornhill Street, New York.

W. H. KING, Genl. Sales Agt., 32 Cornhill Street, New York.

W. H. KING, Genl. Sales Agt., 32 Cornhill Street, New York.

W. H. KING, Genl. Sales Agt., 32 Cornhill Street, New York.

W. H. KING, Genl. Sales Agt., 32 Cornhill Street, New York.

W. H. KING, Genl. Sales Agt., 32 Cornhill Street, New York.

W. H. KING, Genl. Sales Agt., 32 Cornhill Street, New York.

W. H. KING, Genl. Sales Agt., 32 Cornhill Street, New York.

W. H. KING, Genl. Sales Agt., 32 Cornhill Street, New York.

W. H. KING, Genl. Sales Agt., 32 Cornhill Street, New York.

W. H. KING, Genl. Sales Agt., 32 Cornhill Street, New York.

W. H. KING, Genl. Sales Agt., 32 Cornhill Street, New York.

W. H. KING, Genl. Sales Agt., 32 Cornhill Street, New York.

W. H. KING, Genl. Sales Agt., 32 Cornhill Street, New York.

W. H. KING, Genl. Sales Agt., 32 Cornhill Street, New York.

W. H. KING, Genl. Sales Agt., 32 Cornhill Street, New York.

W. H. KING, Genl. Sales Agt., 32 Cornhill Street, New York.

W. H. KING, Genl. Sales Agt., 32 Cornhill Street, New York.

W. H. KING, Genl. Sales Agt., 32 Cornhill Street, New York.

W. H. KING, Genl. Sales Agt., 32 Cornhill Street, New York.

W. H. KING, Genl. Sales Agt., 32 Cornhill Street, New York.

W. H. KING, Genl. Sales Agt., 32 Cornhill Street, New York.

W. H. KING, Genl. Sales Agt., 32 Cornhill Street, New York.

W. H. KING, Genl. Sales Agt., 32 Cornhill Street, New York.

W. H. KING, Genl. Sales Agt., 32 Cornhill Street, New York.

W. H. KING, Genl. Sales Agt., 32 Cornhill Street, New York.

W. H. KING, Genl. Sales Agt., 32 Cornhill Street, New York.

W. H. KING, Genl. Sales Agt., 32 Cornhill Street, New York.

W. H. KING, Genl. Sales Agt., 32 Cornhill Street, New York.

W. H. KING, Genl. Sales Agt., 32 Cornhill Street, New York.

W. H. KING, Genl. Sales Agt., 32 Cornhill Street, New York.

W. H. KING, Genl. Sales Agt., 32 Cornhill Street, New York.

W. H. KING, Genl. Sales Agt., 32 Cornhill Street, New York.

W. H. KING, Genl. Sales Agt., 32 Cornhill Street, New York.

W. H. KING, Genl. Sales Agt., 32 Cornhill Street, New York.

W. H. KING, Genl. Sales Agt., 32 Cornhill Street, New York.

W. H. KING, Genl. Sales Agt., 32 Cornhill Street, New York.

W. H. KING, Genl. Sales Agt., 32 Cornhill Street, New York.

W. H. KING, Genl. Sales Agt., 32 Cornhill Street, New York.

W. H. KING, Genl. Sales Agt., 32 Cornhill Street, New York.

W. H. KING, Genl. Sales Agt., 32 Cornhill Street, New York.

W. H. KING, Genl. Sales Agt., 32 Cornhill Street, New York.

W. H. KING, Genl. Sales Agt., 32 Cornhill Street, New York.

W. H. KING, Genl. Sales Agt., 32 Cornhill Street, New York.

W. H. KING, Genl. Sales Agt., 32 Cornhill Street, New York.

W. H. KING, Genl. Sales Agt., 32 Cornhill Street, New York.

W. H. KING, Genl. Sales Agt., 32 Cornhill Street, New York.

W. H. KING, Genl. Sales Agt., 32 Cornhill Street, New York.

W. H. KING, Genl. Sales Agt., 32 Cornhill Street, New York.

W. H. KING, Genl. Sales Agt., 32 Cornhill Street, New York.

W. H. KING, Genl. Sales Agt., 32 Cornhill Street, New York.

W. H. KING, Genl. Sales Agt., 32 Cornhill Street, New York.

W. H. KING, Genl. Sales Agt., 32 Cornhill Street, New York.

W. H. KING, Genl. Sales Agt., 32 Cornhill Street, New York